

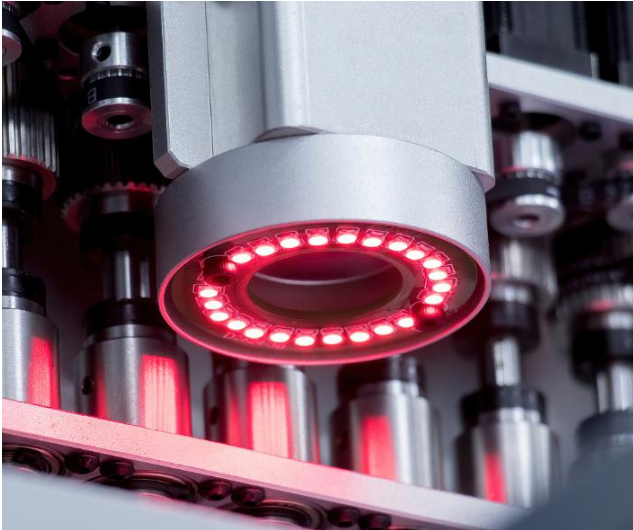
SMT LED Flexible Pick and Place Machine M series



As a flexible pick and place for SMD is reinforced at I.C.T M series. With a head with one gantry and 6-10 spindles, I.C.T M series can be used 0402 to 15mm IC parts. I.C.T M series improved actual productivity and placement quality by using high speed and high precision electrically driven feeders.

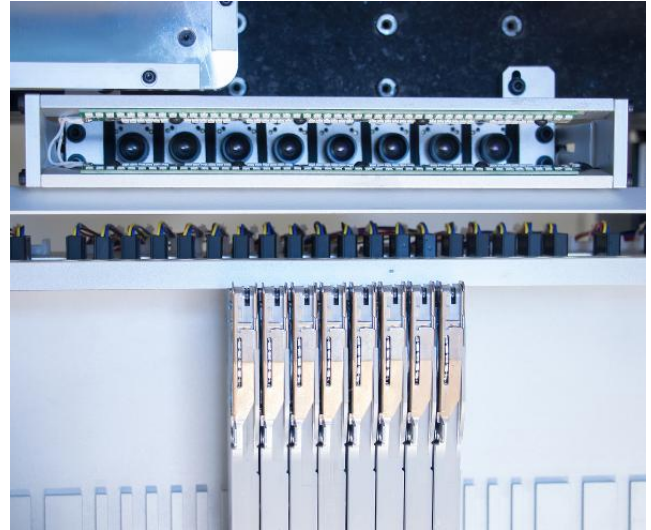
Features:

1. High-speed flight vision system, 0 second recognition, improve production efficiency.
2. I.C.T unique mounting pressure control system, full closed-loop mount control system in Z-axis placement process to ensure the effective height and placement accuracy.
3. I.C.T exclusive image recognition system uses digital identification and equips with new industrial cameras.
4. Marble platform is adopted to improve the stability and efficiency of the machine.
5. Machine with vacuum pump, provide stable gas source, improve production quality.
6. The first servo motor controlled independently arm with six heads to achieve optimum placement speed and accuracy in china.
7. High precision hardware, imported top brands core parts to ensure placement precision, communication systems and so on.
8. Industrial-grade computer control and windows operating system.
9. Standard feeder with sensor to prevent components hip up to ensure safe operation.
10. X-Y-axis is driven by servo motors to ensure long-term stability and high accuracy of the machine.
11. English operating system on the basis of imported placement machines to ensure the simplicity and convenience of the operator.



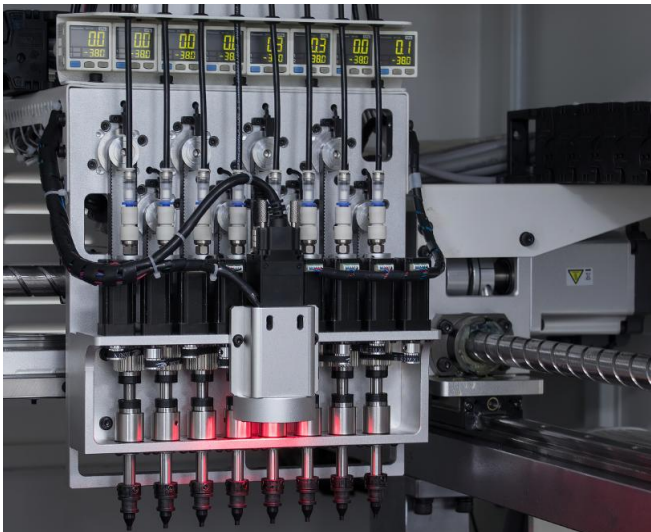
Vision system-PCB

PCB mark camera use uniform ring and high brightness coaxial light source. Full range light source adjust can identify various types of Mark. Suitable for tin plating, copper plating, tin spraying, FPC and other PCB to ensure high accuracy.



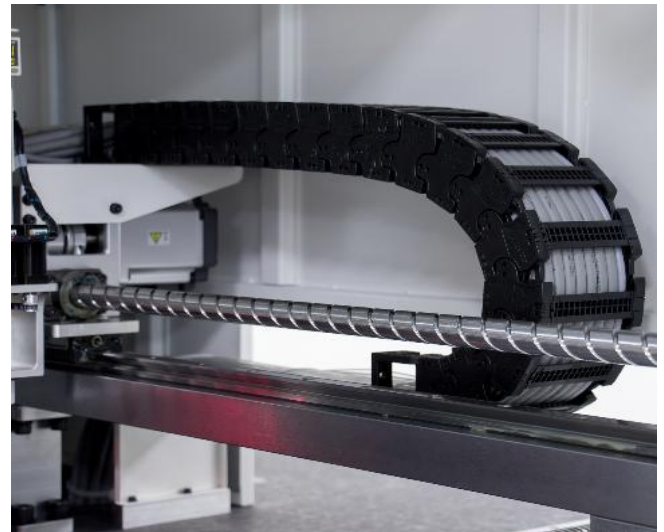
Vision system-Component

Component camera adopts 6-10 pcs in-line high-precision cameras, square multiple light sources, 0-second recognition technology, unique algorithm system, precise positioning of various types of components, can effectively identify 0402-15mm square parts.



Driver system-Mount Head

Each nozzle head is driven by independent z-axis servo motor, independent rotation angle motor, and imported NSK/THK spindle, and lightweight head structure design concept to ensure to ensure high precision, high stability and high reliability.



Driver system XY Axis

XY axis adopts Japan servo motor and drive system, Japan high-precision ball screw, and high flexible tank chain to ensure smooth operation, ensure the accuracy and reliability of high-speed operation.



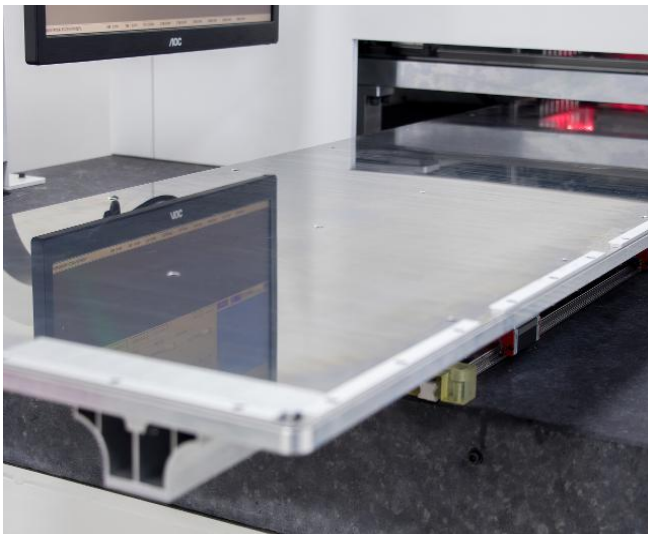
Platform system-Marble

High precision and high-grade marble platform is adopted to avoid the accuracy problem caused by stress. All moving parts(x axis,y axis, transport axis) rely on the marble platform, ensure the long-term reliability of the machine.



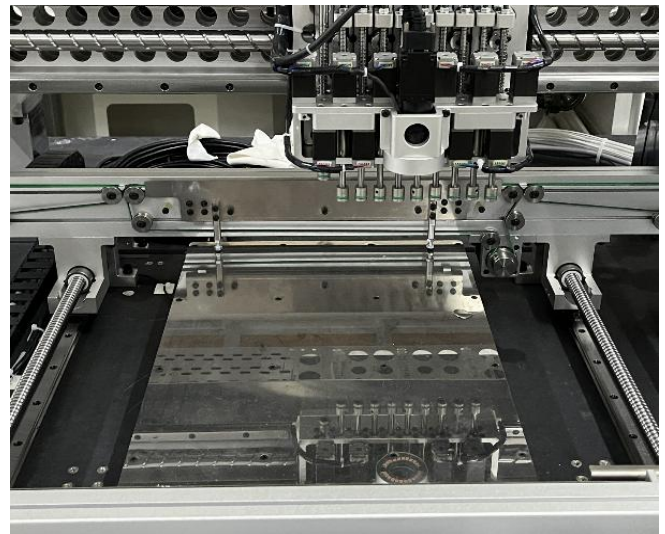
Platform system-Transport

Off line and retractable on-line two ways to meet different PCB Applications, with a maximum length of 1800mm led. The belt adopts heavy-duty design to meet the requirements of PCBs of various materials.



Transport system-Offline

The aluminum alloy support ensures that the maximum 1800mm PCB length surface is not deformed, the magnet is flexible to deal with different PCB shapes, the platform moving with ball screw and linear guideway, and the servo motor drive ensures high precision.



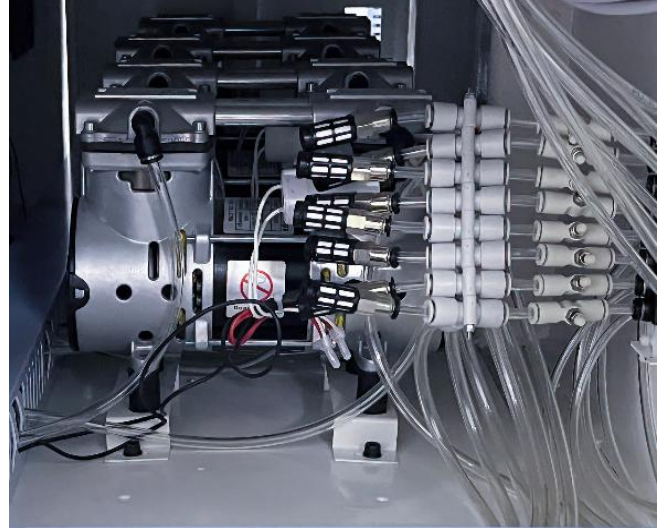
Transport system-Online

The one to three-stage conveyor rail can be flexibly adjusted, and the multi-point support platform at the bottom ensures the flatness of PCB surface. The unique belt conveyor system can effectively prevent stuck PCB.



Feeding system

Copy japan FUJI SMT pick and place feeder, with the humanized plug-in design and high-speed communication concept, ensure accurate and stable supply of various components, simple and convenient operation.



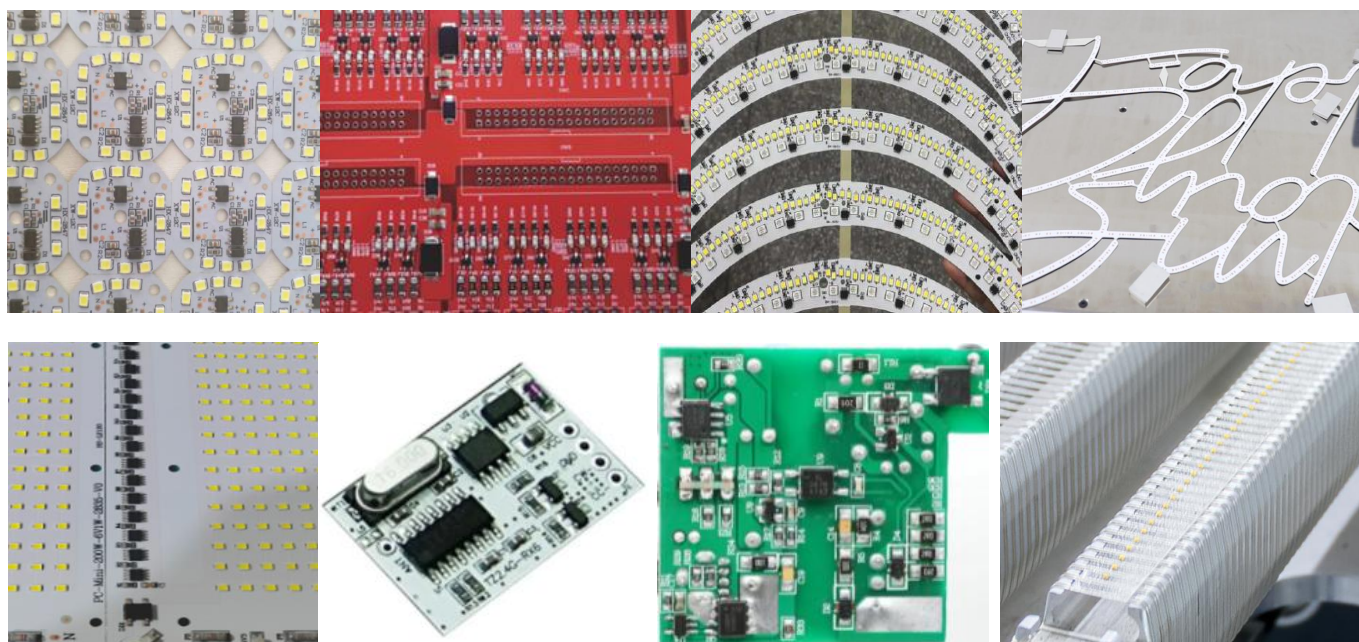
Vacuum system

The machine is equipped with multiple groups of independent vacuum generators to ensure vacuum suction pressure, and ensure vacuum stability for large components such as LED, and reduce the air source pollution of the pneumatic parts.

View:



Application:



Materials List:




No.	Item	Brand	Original
1	Ball screw	Kuroda/THK	Japan
2	Linear Guideway	PMI/HIWIN	Taiwan
3	Spindle	THK	Japan
4	CCD	8 network Gigabit digital cameras	China
5	Vacuum detector	Panasonic	Japan
6	Servo motor	Panasonic	Japan
7	Servo driver	Panasonic	Japan
8	Vacuum pump	EUROVAC	Taiwan
9	Sensor	OMRON	Japan
10	Magnetic valve	SMC,CKD,AIRTAC	Japan, Taiwan
11	Software	I.C.T	China
12	Switch	SMC, IDEC	Japan
13	Bearing	NSK	Japan
14	Soft Cable	IGUS	Germany
15	Tanks chain	IGUS	Germany

Standard Accessories:

1	SMT Nozzle	16(8head)/20(10head) pcs
2	Operation Software	1 set
3	Lubricating oil	1 pcs
4	PCB Support Pin	10 pcs
5	Manual	1 book
6	Tool Case	1 set

* Attachments may change with product upgrade. If different, please follow the new list.

Specification:

Model	OFM8	OFM10	ONM8	ONM10	OIM8	OIM10
						
Type	Offline		Online		Online	
Speed(IPC9850)	55000CPH	60000CPH	55000CPH	60000CPH	45000CPH	55000CPH
Nozzle Number	8	10	8	10	8	10
Min. PCB Size	50*50mm					
Max. PCB Size	1500*420mm		1200*400mm		800*500mm	
Special PCB Size	Special PCB size can be customized (1800-2000mm length)					
PCB Thickness	0.4~6mm					
PCB Warpage	<1%					
Mark CCD	1					
Component CCD	8	10	8	10	8	10
Component Range	0402~15mm					
Placement Accuracy	±50μm					
Component Height	≤10mm					
Z-axis range	±8mm				±10mm	
Feeder Inputs	27					
Convey Time	5-8S			3-5S		
Transport Height	900±20mm					
Transport Direction	Manual			Left-Right		
Product Set-up Time	<10Mins					
Air Pressure	4.5~6Kg/cm2					
Power Supply	AC:220±10%,50/60HZ					
Power consumption	2.5Kw					
Operating system	WIN 7					
Dimension	L2000*W1200*H1500mm				L1250*W1320*H1500mm	
Weight	Approx.1600kg				Approx.1400kg	

* I.C.T keeps working on quality and performance, specifications and appearance may be updated without particular notice.

Thanks for choosing I.C.T.
I.C.T looks forward to win-win cooperation.
Thank you.